



Samuel Rodriguez, MD

Clinical Associate Professor, Anesthesiology, Perioperative and Pain Medicine

CLINICAL OFFICES

- **Anesthesia Department**

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Bio

BIO

Dr. Sam Rodriguez is a Pediatric Anesthesiologist at Stanford Children's Hospital in the Clinician Educator Line. His clinical research involves creating and studying the effects of new technologies on pediatric stress and pain. He is the founder and co-director of the Stanford CHARIOT Program which creates and studies innovative approaches to treating children. The CHARIOT Program has positively impacted thousands of children and has grown to include emerging technologies like virtual reality, augmented reality, and interactive video games. Dr. Rodriguez is also highly involved in medical humanities education at Stanford Medical School and teaches courses at the undergraduate and graduate levels on how studying art can make better physicians.

CLINICAL FOCUS

- Anesthesiology
- Pediatric Anesthesia

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Anesthesiology, Perioperative and Pain Medicine
- Member, Maternal & Child Health Research Institute (MCHRI)

PROFESSIONAL EDUCATION

- Medical Education: Perelman School of Medicine University of Pennsylvania (2008) PA
- Board Certification: Anesthesiology, American Board of Anesthesiology (2013)
- Residency: Massachusetts General Hospital MA
- Fellowship: Boston Children's Hospital MA
- Board Certification: Pediatric Anesthesia, American Board of Anesthesiology (2013)

LINKS

- Art and Medicine: www.samrodriguezmd.com
- chariot.stanford.edu: chariot.stanford.edu

Research & Scholarship

CLINICAL TRIALS

- Transnasal Humidified Rapid-Insufflation Ventilatory Exchange (THRIVE) Use in Pediatric Procedures, Recruiting
- VR Usage in Non-Invasive Surgical Sub-Specialty Procedures, Recruiting
- Evaluation of Technology-Based Stress Reduction Techniques Prior to Vascular Access, Not Recruiting
- Screen-Based Distraction Tool for Preoperative Preparation, Not Recruiting

Teaching

COURSES

2018-19

- The Art of Medical Diagnosis: ANES 72Q (Spr)

2017-18

- The Art of Medical Diagnosis: ANES 72Q (Spr)
- The Art of Observation: Enhancing Clinical Skills Through Visual Analysis: SOMGEN 213 (Win)

2016-17

- The Art of Medical Diagnosis: ANES 72Q (Spr)
- The Art of Observation: Enhancing Clinical Skills Through Visual Analysis: SOMGEN 213 (Win)

2015-16

- The Art of Medical Diagnosis: Enhancing Observational Skills through the Study of Art: ANES 72Q (Spr)
- The Art of Observation: Enhancing Clinical Skills Through Visual Analysis: SOMGEN 213 (Win)

Publications

PUBLICATIONS

- **Commentary on A Body of Work: Painting a Decade of Gross Dissection.** *Academic medicine : journal of the Association of American Medical Colleges*
Rodriguez, S., Srivastava, S.
2018; 93 (3): 429
- **Augmented reality for intravenous access in an autistic child with difficult access.** *Paediatric anaesthesia*
Rodriguez, S., Munshey, F., Caruso, T. J.
2018; 28 (6): 569–70
- **Bedside Entertainment and Relaxation Theater: size and novelty does matter when using video distraction for perioperative pediatric anxiety.** *Paediatric anaesthesia*
Rodriguez, S., Caruso, T., Tsui, B.
2017; 27 (6): 668–69
- **Interactive video game built for mask induction in pediatric patients.** *Canadian journal of anaesthesia = Journal canadien d'anesthésie*
Rodriguez, S., Tsui, J. H., Jiang, S. Y., Caruso, T. J.
2017
- **Provider-controlled virtual reality experience may adjust for cognitive load during vascular access in pediatric patients.** *Canadian journal of anaesthesia = Journal canadien d'anesthésie*
Yuan, J. C., Rodriguez, S., Caruso, T. J., Tsui, J. H.
2017
- **The transfer of care.** *Anesthesia and analgesia*

- Rodriguez, S.
2015; 120 (3): 687-?
- **Transnasal Humidified Rapid Insufflation Ventilatory Exchange (THRIVE) augments oxygenation in children with cyanotic heart disease during microdirect laryngoscopy and bronchoscopy** *JOURNAL OF CLINICAL ANESTHESIA*
Caruso, T. J., Sidell, D. R., Lennig, M., Menendez, M., Fonseca, A., Rodriguez, S. T., Tsui, B.
2019; 56: 53–54
 - **Varying Screen Size for Passive Video Distraction During Induction of Anesthesia in Low Risk Children: A Pilot Randomized Controlled Trial.** *Paediatric anaesthesia*
Rodriguez, S., Jang, O., Hernandez, J. M., George, A. J., Caruso, T. J., Simons, L.
2019
 - **Transnasal Humidified Rapid Insufflation Ventilatory Exchange (THRIVE) augments oxygenation in children with cyanotic heart disease during microdirect laryngoscopy and bronchoscopy.** *Journal of clinical anesthesia*
Caruso, T. J., Sidell, D. R., Lennig, M., Menendez, M., Fonseca, A., Rodriguez, S. T., Tsui, B.
2019; 56: 53–54
 - **Speeding the Detection of Vessel Cannulation: An In-Vitro Stimulation Study.** *Anesthesia and analgesia*
Muffly, M. K., Ku, A., Drover, D. R., Rodriguez, S., Caruso, T. J., Ku, A., Tsui, B. C.
2019
 - **Virtual reality use in adult ICU to mitigate anxiety for a patient on V-V ECMO.** *Journal of clinical anesthesia*
Blair, G. J., Kapil, S., Cole, S. P., Rodriguez, S.
2018; 55: 26–27
 - **Saphenous nerve block for medial foot surgery: Saphenous nerve beyond cutaneous sensory distribution.** *Journal of clinical anesthesia*
Darling, C. E., Hoffinger, S. A., Rodriguez, S., Tsui, B. C.
2018; 54: 160–61
 - **The Precision Portrait.** *AMA journal of ethics*
Rodriguez, S., Love, N.
2018; 20 (9): E891–893
 - **Active Virtual Reality Improves Vascular Access Compliance in Anxious Children**
Yuan, J. C., Joseph, A., Rodriguez, S., Caruso, T. J.
LIPPINCOTT WILLIAMS & WILKINS.2018: 114–15
 - **A Retrospective Review of a Bed-mounted Projection System for Managing Pediatric Preoperative Anxiety.** *Pediatric quality & safety*
Caruso, T. J., Tsui, J. H., Wang, E., Scheinker, D., Sharek, P. J., Cunningham, C., Rodriguez, S. T.
2018; 3 (4): e087
 - **Continuous erector spinae plane block for an open pyeloplasty in an infant.** *Journal of clinical anesthesia*
Munshay, F., Rodriguez, S., Diaz, E., Tsui, B.
2018; 47: 47–49
 - **A Body of Work: Painting a Decade of Gross Dissection.** *Academic medicine : journal of the Association of American Medical Colleges*
Rodriguez, S.
2018; 93 (3): 428
 - **Contralateral osteotomy of the pedicle and posterolateral elements for en bloc resection: a technique for oncological resection of posterolateral spinal tumors** *JOURNAL OF NEUROSURGERY-SPINE*
Vasudeva, V. S., Ropper, A. E., Rodriguez, S., Wu, K. C., Chi, J. H.
2017; 26 (3): 275-281
 - **Initial clinical outcomes of audiovisual-assisted therapeutic ambience in radiation therapy (AVATAR).** *Practical radiation oncology*
Hiniker, S. M., Bush, K., Fowler, T., White, E. C., Rodriguez, S., Maxim, P. G., Donaldson, S. S., Loo, B. W.
2017
 - **Induction.** *Anesthesia and analgesia*
Wu, M., Rodriguez, S. T.

2017

- **Epidural Steroid Injections for Radiculopathy and/or Back Pain in Children and Adolescents: A Retrospective Cohort Study With a Prospective Follow-Up.** *Regional anesthesia and pain medicine*
Kurgansky, K. E., Rodriguez, S. T., Kralj, M. S., Mooney, J. J., Dinakar, P., d'Hemecourt, P. A., Hedequist, D. J., Proctor, M. R., Berde, C. B.
2016; 41 (1): 86-92
- **Artist's statement: the mighty fellow.** *Academic medicine*
Rodriguez, S.
2015; 90 (11): 1527-?
- **The development of pediatric anesthesiology and critical care medicine at the Cincinnati Children's Hospital: an interview with Dr. Theodore Striker** *PEDIATRIC ANESTHESIA*
Ahmed, Z., Samuels, P. J., Mai, C. L., Rodriguez, S., Iftikhar, A. R., Yaster, M.
2015; 25 (8): 764-769
- **Extensive spinal epidural abscess treated with "apical laminectomies" and irrigation of the epidural space: report of 2 cases** *JOURNAL OF NEUROSURGERY-SPINE*
Abd-El-Barr, M. M., Bi, W. L., Bahluyen, B., Rodriguez, S. T., Groff, M. W., Chi, J. H.
2015; 22 (3): 318-323
- **A patient with surgically unrepaired single ventricle and uncontrolled amiodarone-induced thyrotoxicosis for emergent thyroidectomy. A & A case reports**
Downey, L., Rodriguez, S., Clendenin, D.
2014; 3 (5): 61-64
- **Minimally invasive spine surgery for adult degenerative lumbar scoliosis** *NEUROSURGICAL FOCUS*
Dangelmajer, S., Zadnik, P. L., Rodriguez, S. T., Gokaslan, Z. L., Sciubba, D. M.
2014; 36 (5)
- **Breaking the glass ceiling: an interview with Dr. Shirley Graves, a pioneering woman in medicine** *PEDIATRIC ANESTHESIA*
Ahmed, Z., Mai, C. L., Elder, B., Rodriguez, S., Yaster, M.
2014; 24 (4): 440-445
- **The development of a specialty: an interview with Dr. Mark C. Rogers, a pioneering pediatric intensivist.** *Paediatric anaesthesia*
Mai, C. L., Firth, P. G., Ahmed, Z., Rodriguez, S., Yaster, M.
2014
- **Assessment of the length of myotomy in peroral endoscopic pyloromyotomy (G-POEM) using a submucosal tunnel technique (video).** *Surgical endoscopy*
Jung, Y., Lee, J., Gromski, M. A., Kato, M., Rodriguez, S., Chuttani, R., Matthes, K.
2014